

CLAIMS

1. A fuel feed unit for delivering fuel, having an electric motor, an electric motor stator ring, magnet shells arranged inside the stator ring and a motor casing to accommodate the stator ring, characterized in that a one-piece body (19, 19', 19'', 19''', 19''') comprises the stator ring (8) and an adjoining component of the motor casing (9) and/or of the magnet shells (10).
2. The fuel feed unit as claimed in claim 1, characterized in that the one-piece body (19, 19', 19'', 19''', 19''') is produced from plastics with ferrite bonded therein.
3. The fuel feed unit as claimed in at least one of the preceding claims, characterized in that the plastic is polyphenyl sulfide.
4. The fuel feed unit as claimed in at least one of the preceding claims, characterized in that a casing part of a feed pump (2) for delivering fuel in a fuel tank is produced in one piece with the body (19'', 19''').
5. The fuel feed unit as claimed in at least one of the preceding claims, characterized in that the body (19', 19'', 19''') comprising the stator ring (8) has a flange (20) for joining to a connection piece (7) intended for the connection of a fuel line.
6. The fuel feed unit as claimed in at least one of the preceding claims, characterized in that the body (19'', 19''') comprising the stator ring (8) has a bearing (18) for the rotor (4).
7. The fuel feed unit as claimed in at least one of the preceding claims, characterized in that the body (19'', 19''') comprising the stator ring (8) is joined in one piece to a component having a duct (17) of the feed pump (2).